

Title (en)  
Downhole current generator

Title (de)  
Stromgenerator zur Verwendung im Bohrloch

Title (fr)  
Générateur de courant pour fond de puits

Publication  
**EP 0909008 B1 20060301 (EN)**

Application  
**EP 98307453 A 19980915**

Priority  
US 93176297 A 19970916

Abstract (en)  
[origin: EP0909008A2] A downhole current generator (34) generates power in a wellbore and includes a power section (36) and a generator section (38). The power section (36) has a sleeve (44) slidably disposed within a housing (42) which oscillates in response to the application of fluid pressure to the current generator (34). A piston (48) is slidably attached to the sleeve (44) and oscillates relative to the sleeve (44) and the housing (42). The piston (87) extends longitudinally into the generator section (38) and has a plurality of magnets (78) attached thereto which oscillate with the piston (48). Wire coil sections (82) are fixed relative to the housing of the generator section (38) and are positioned between the oscillating magnets (78) such that a current is induced in the wire coil sections (82) upon oscillation of the magnets (78) <IMAGE> <IMAGE>

IPC 8 full level  
**H02K 7/18** (2006.01); **E21B 41/00** (2006.01); **H02K 35/02** (2006.01)

CPC (source: EP US)  
**E21B 41/0085** (2013.01 - EP US); **H02K 7/1876** (2013.01 - EP US); **H02K 35/02** (2013.01 - EP US)

Cited by  
US6681633B2; US6712160B1; US6648082B2; US6817425B2; US6722450B2; EP1071195A3; EP1514997A3; US6705085B1; US7004260B2; WO2005005827A1; WO0140620A1; WO2007005435A1; US7357197B2; GB2419362A; GB2419362B; EP3902977A4; WO0155551A1

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